

FIG. 1

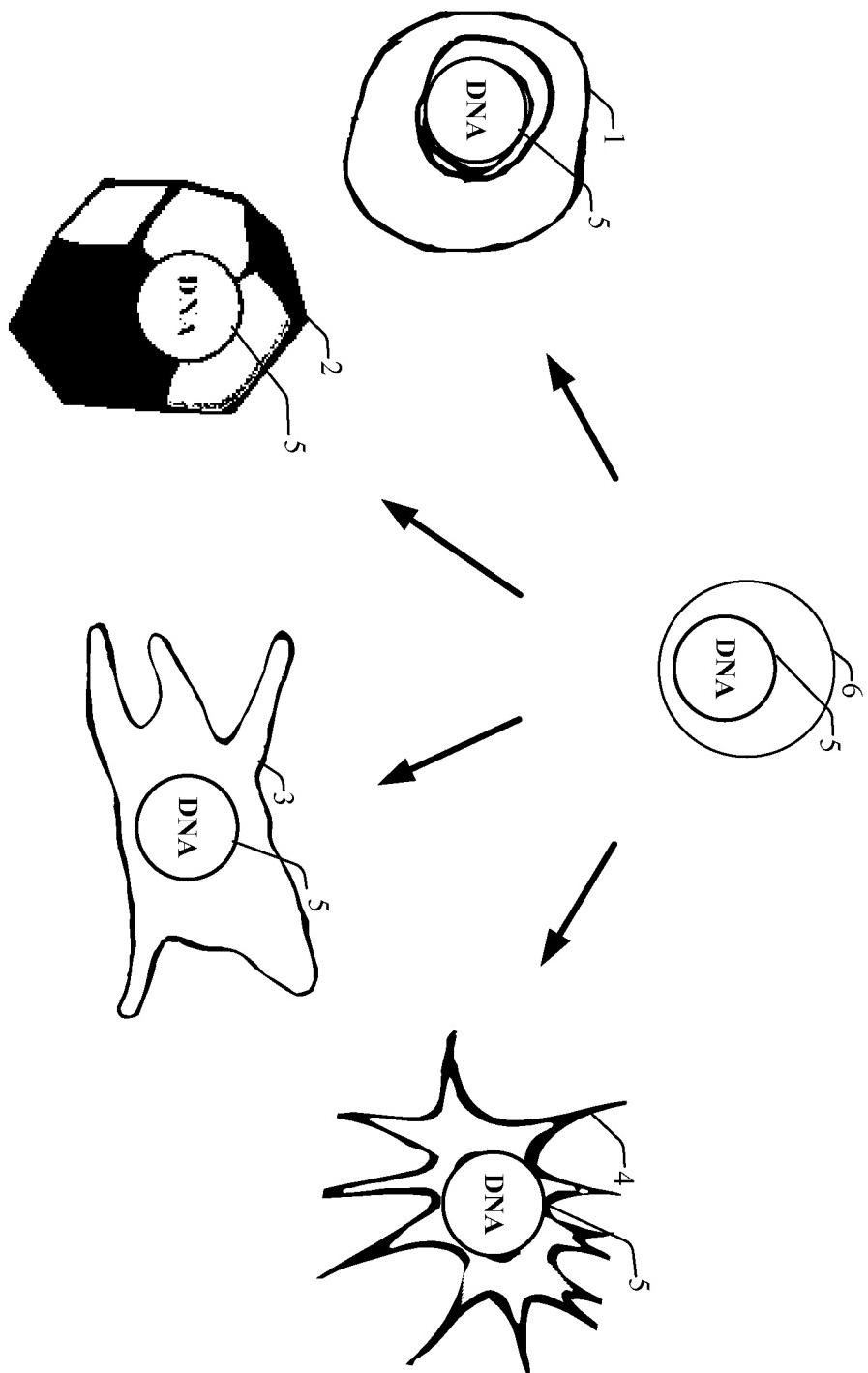


FIG. 2A

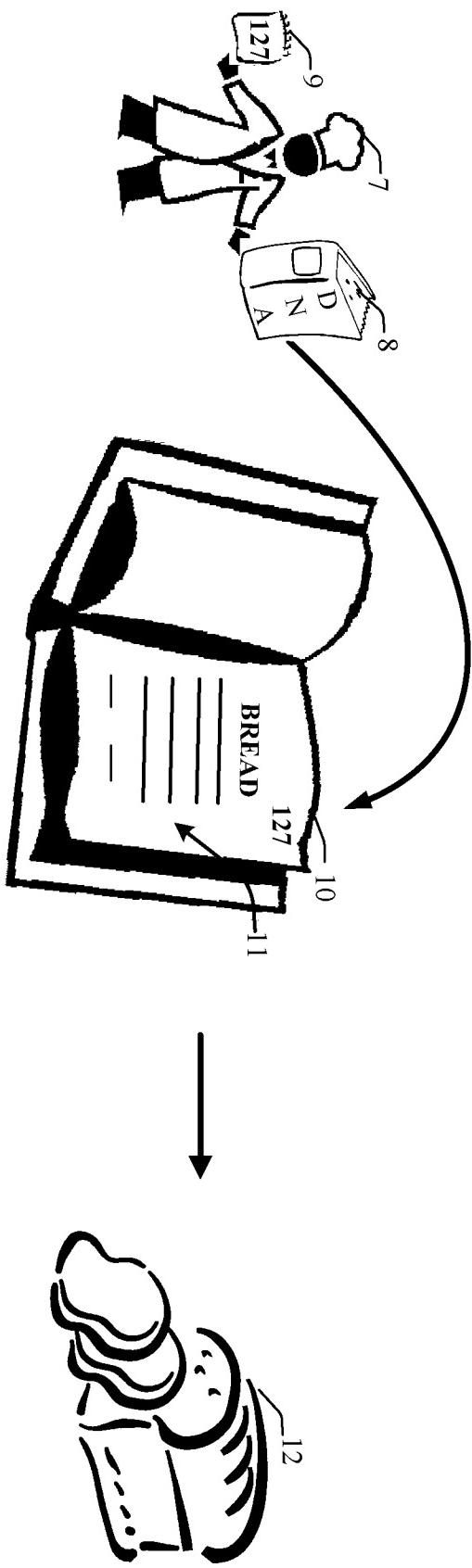


FIG. 2B

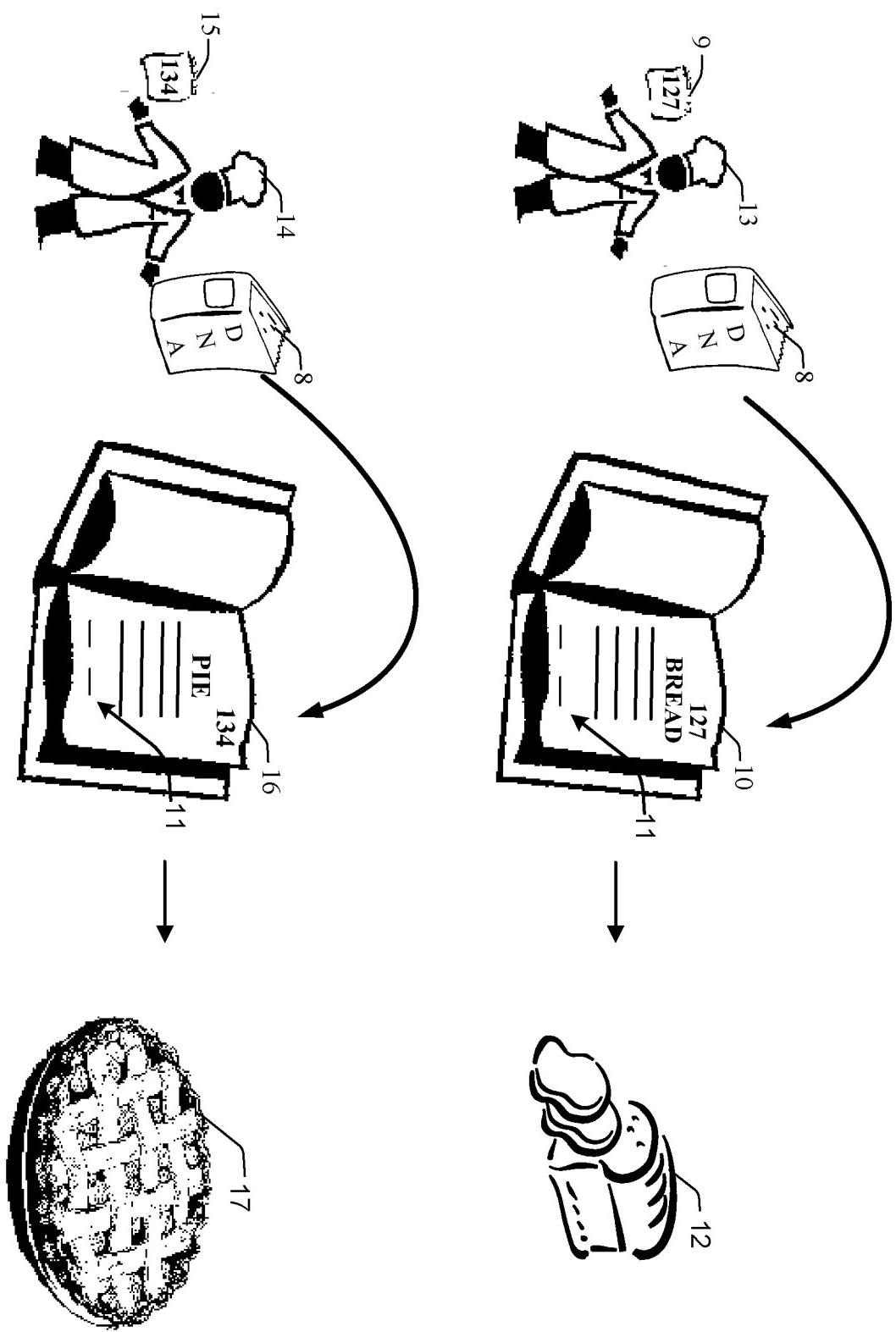


FIG. 3

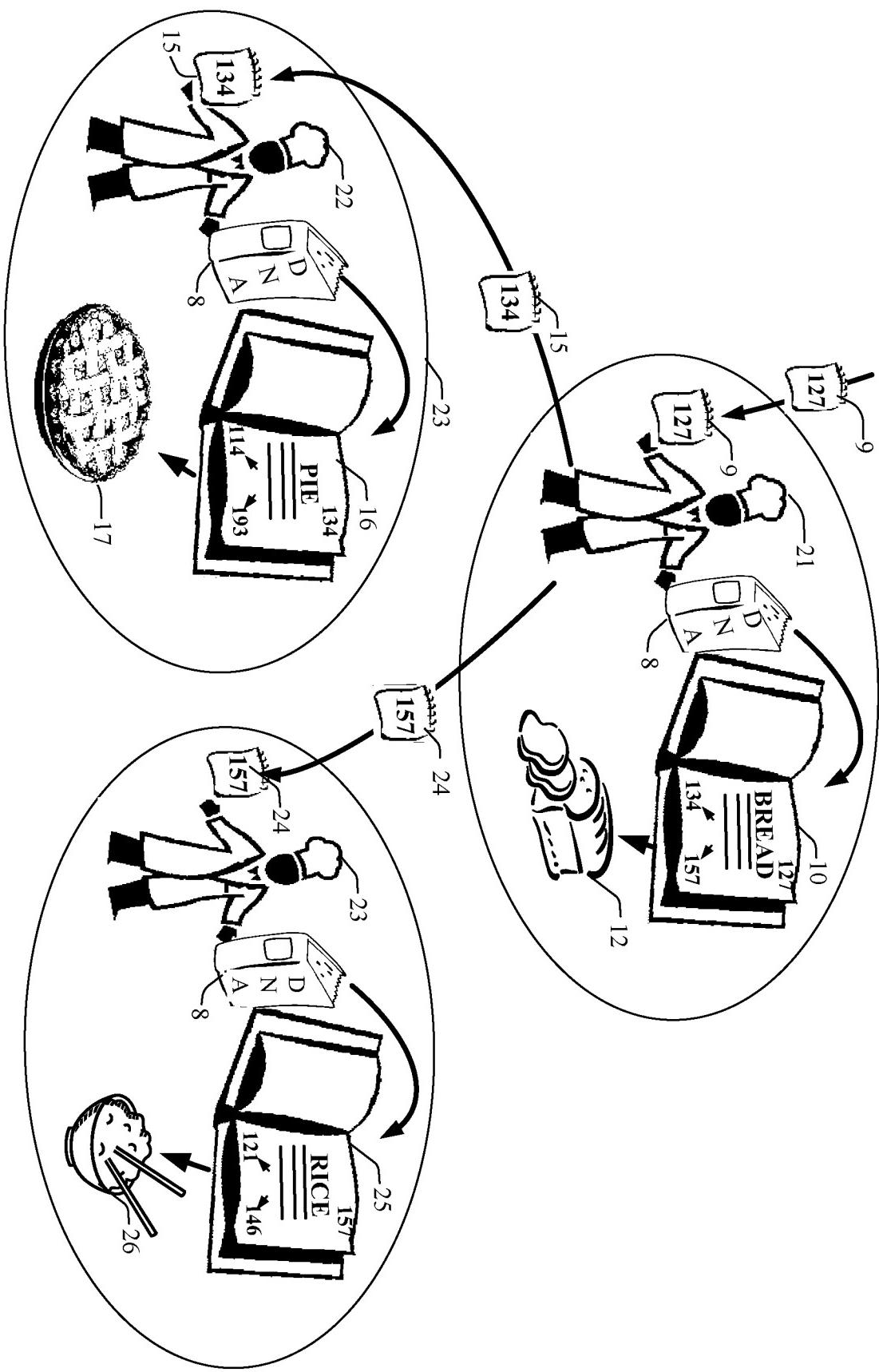


FIG. 4

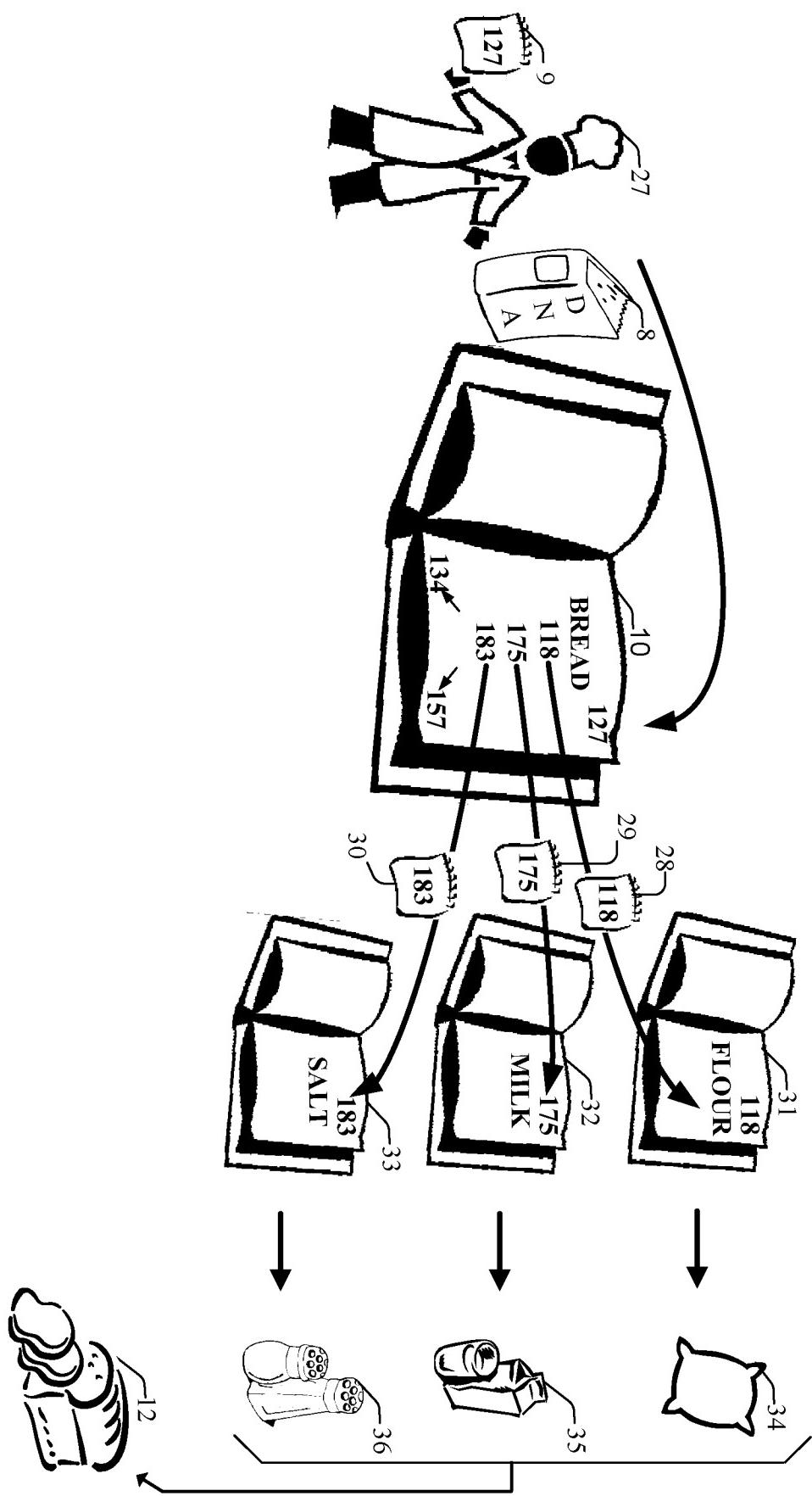


FIG. 5A

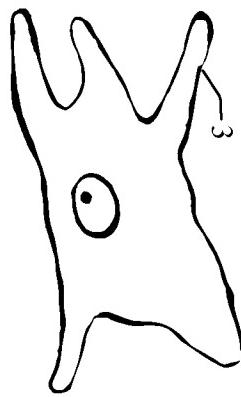
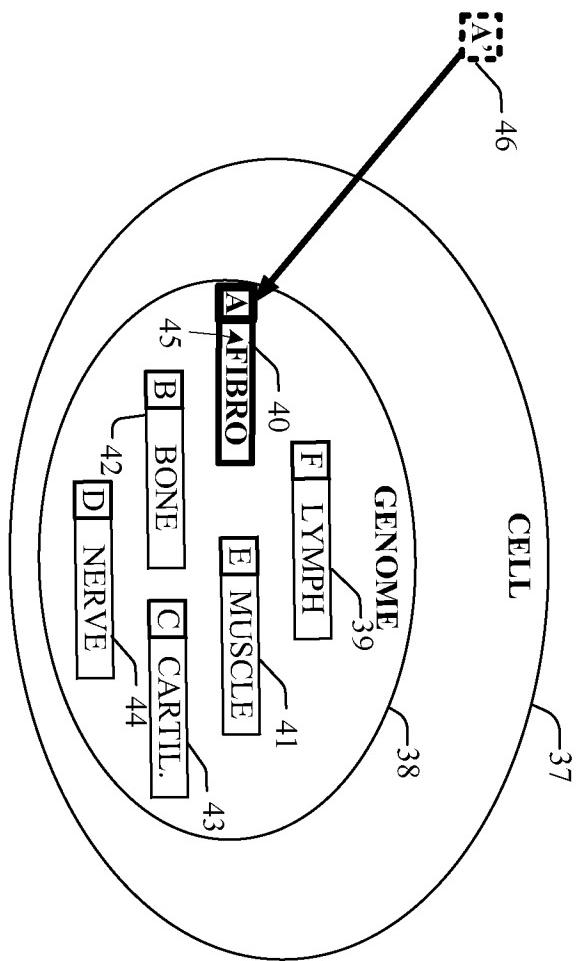


FIG. 5B

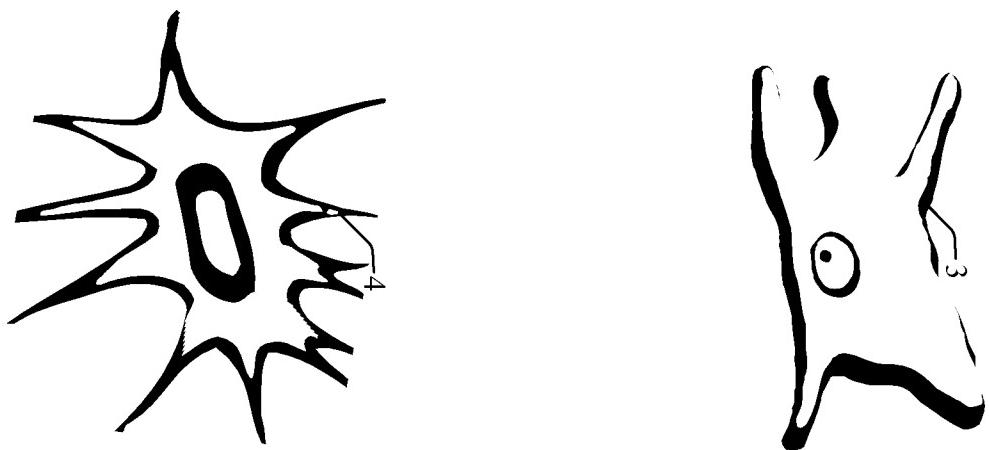
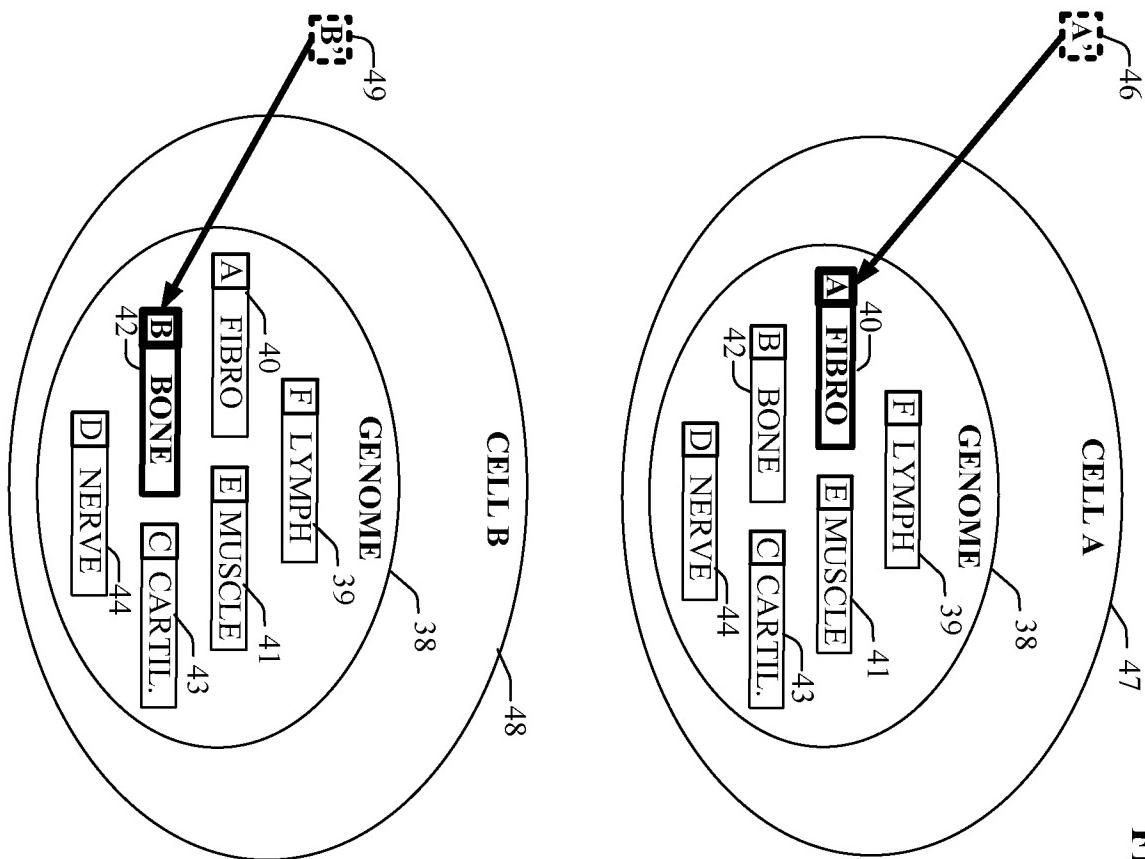


FIG. 6

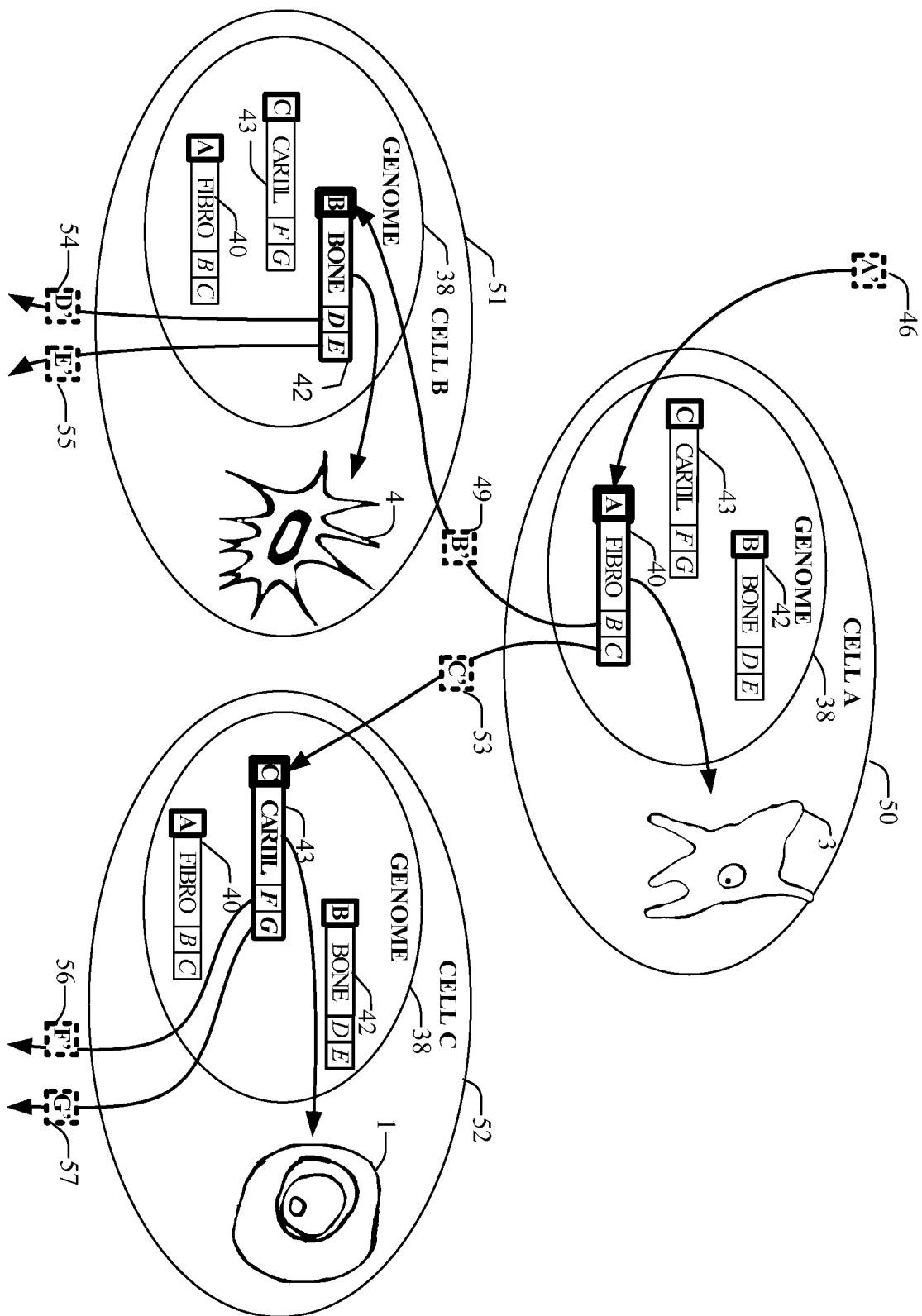


FIG. 7

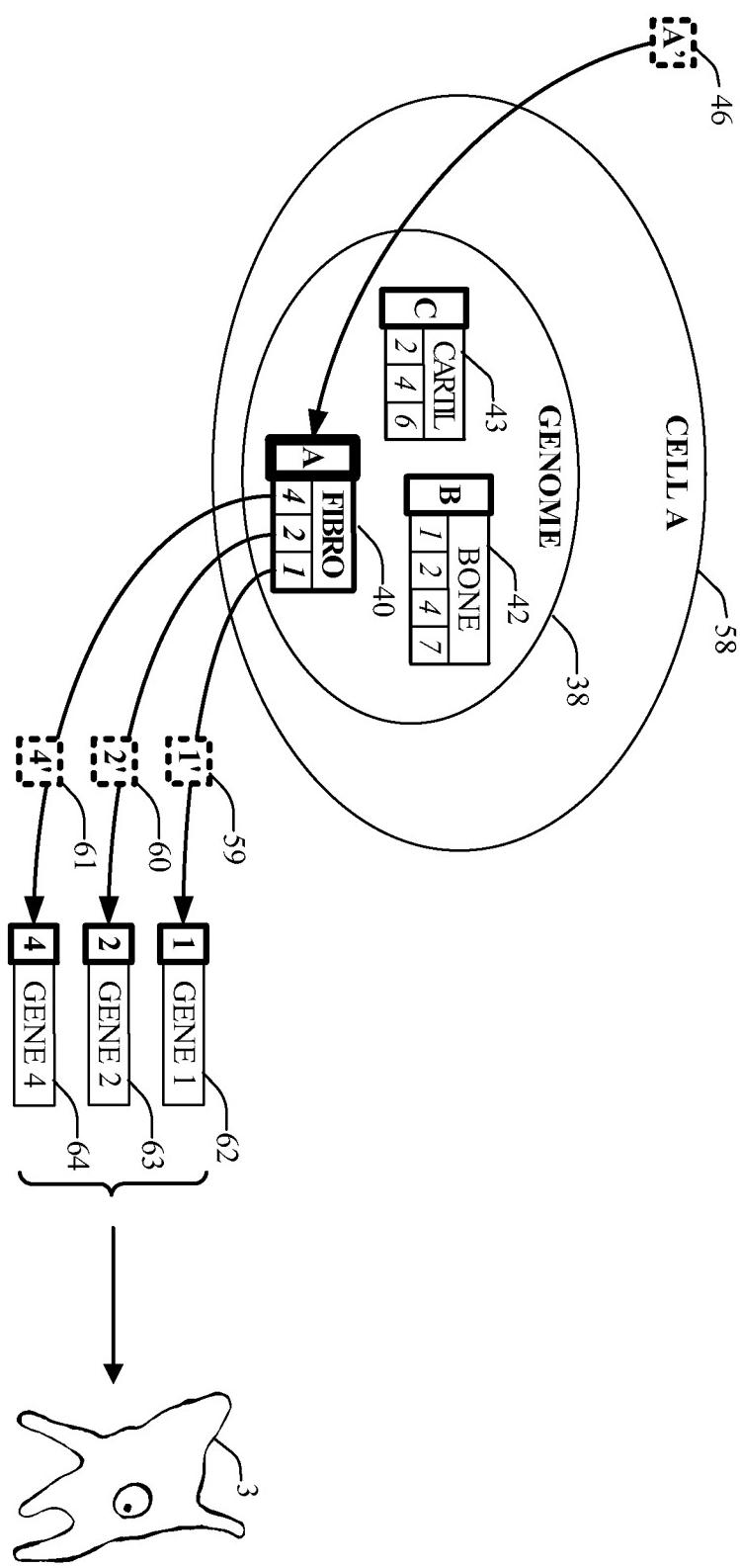


FIG. 8

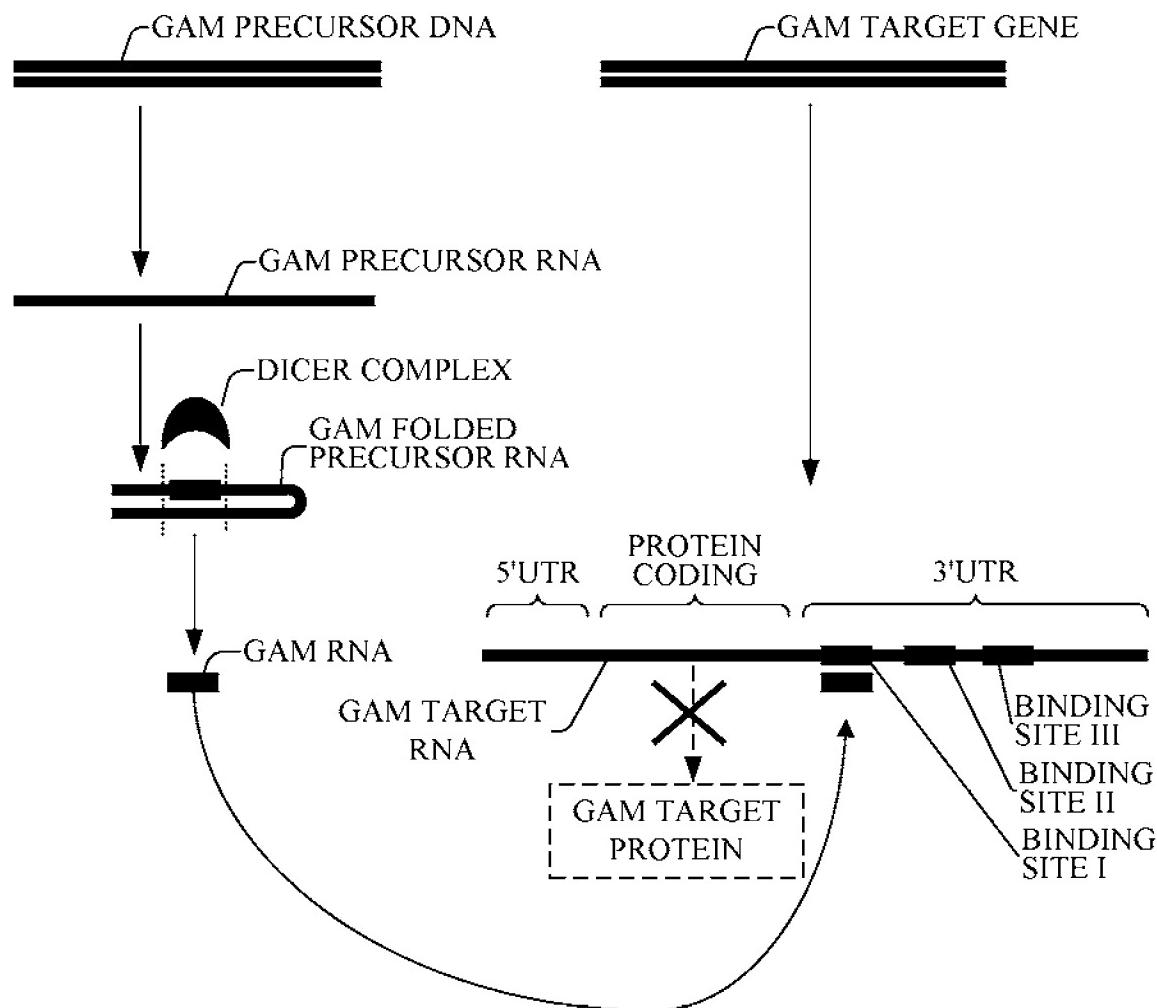


FIG. 9

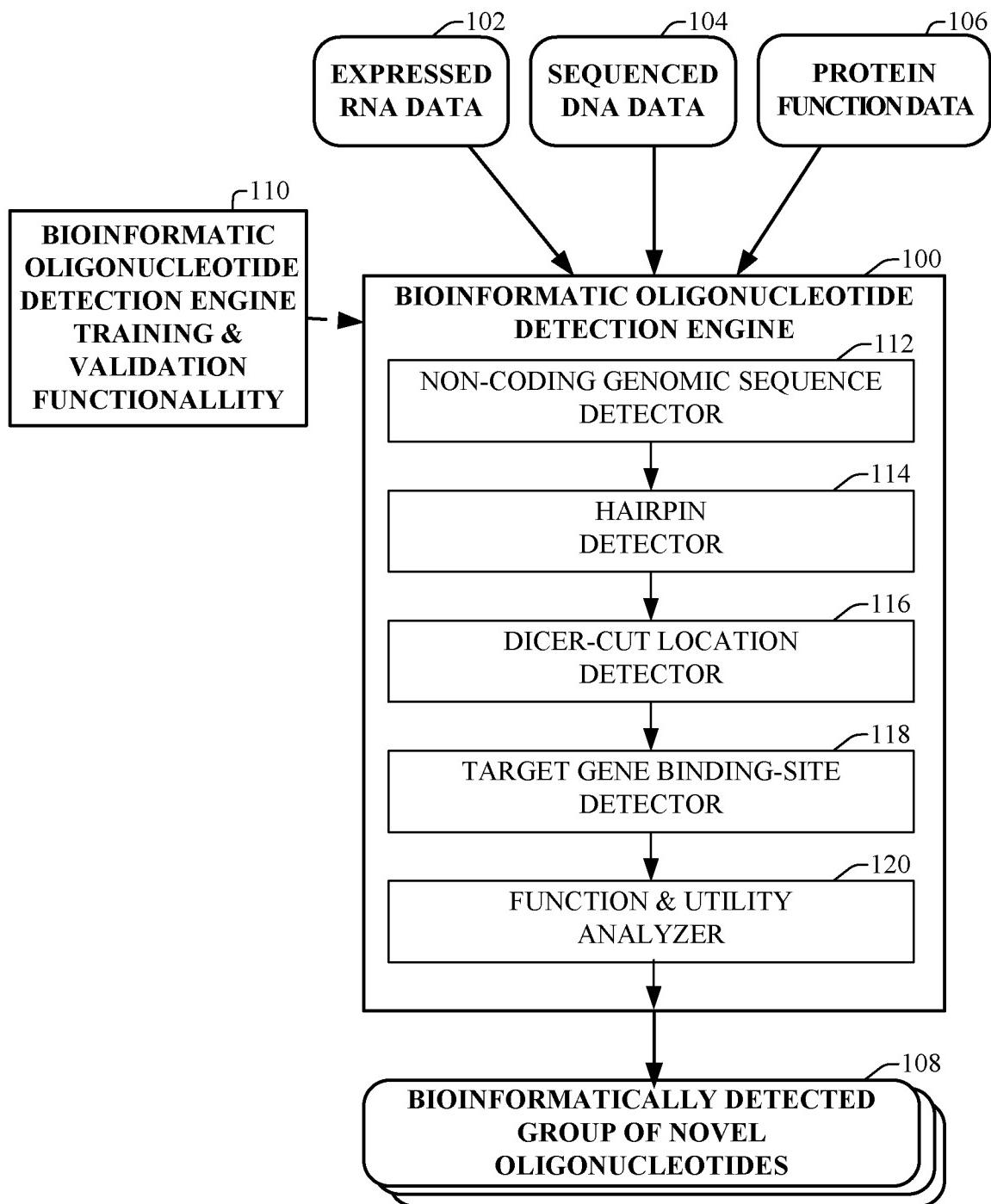


FIG. 10

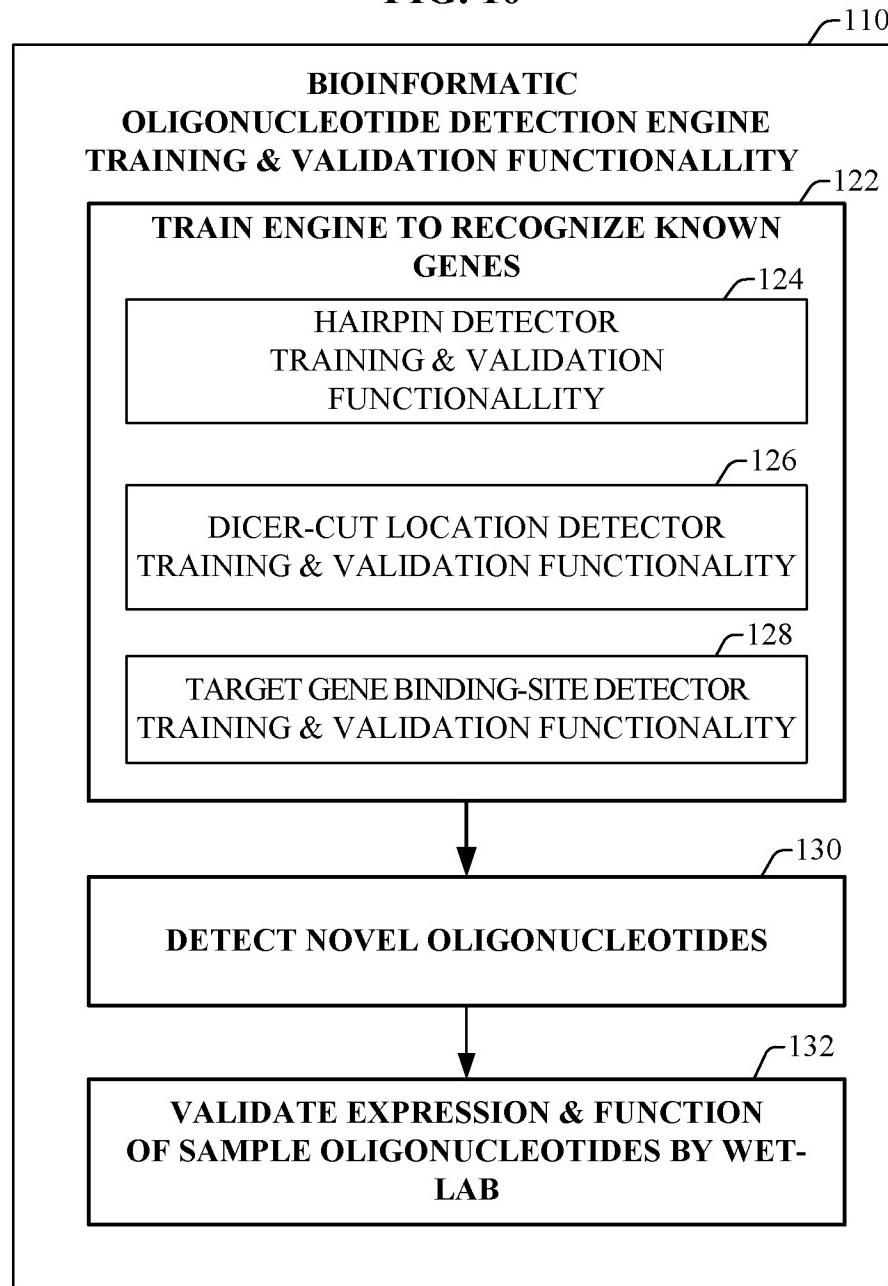


FIG. 11A

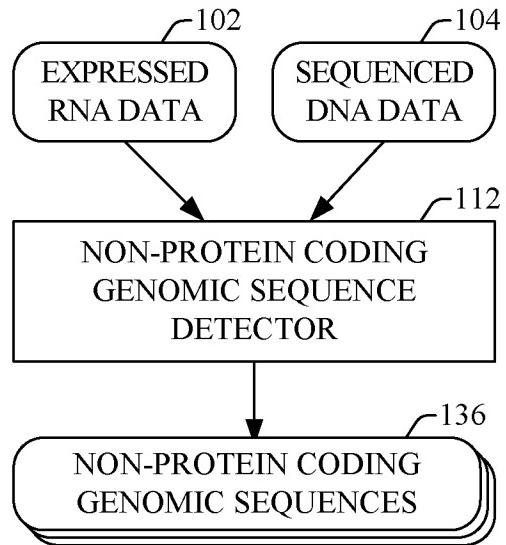


FIG. 11B

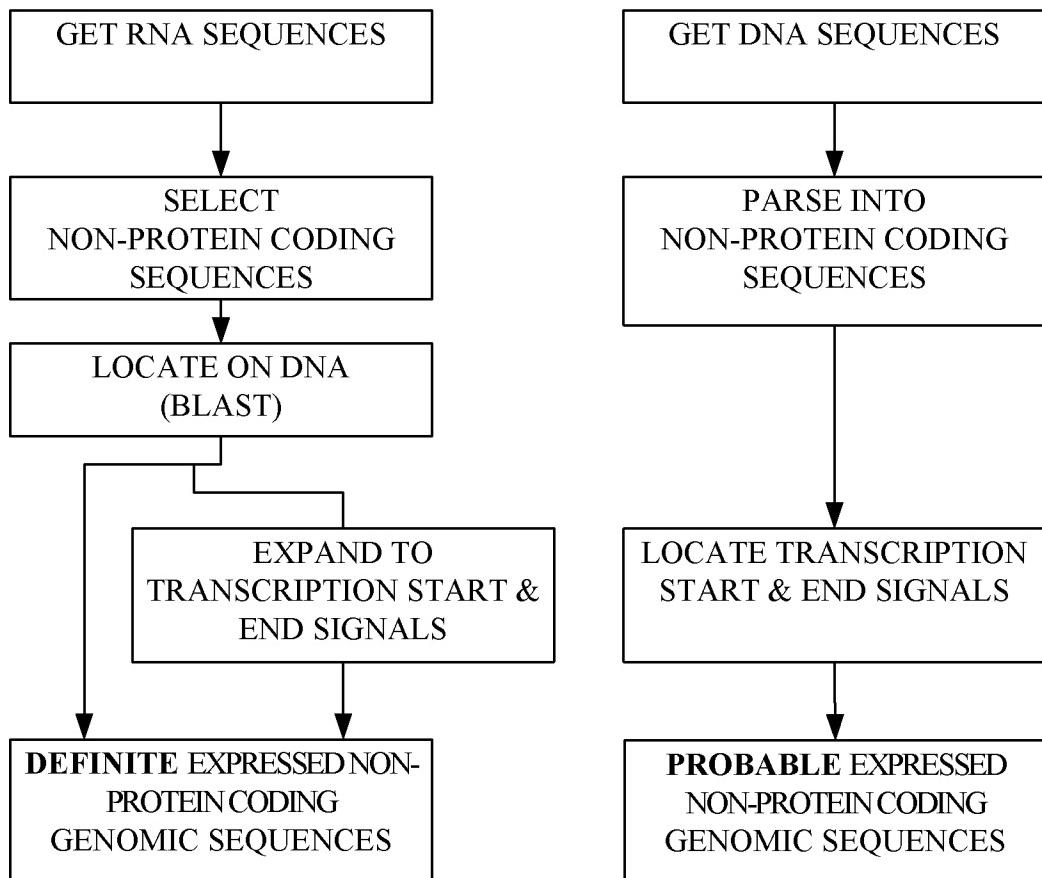


FIG. 12A

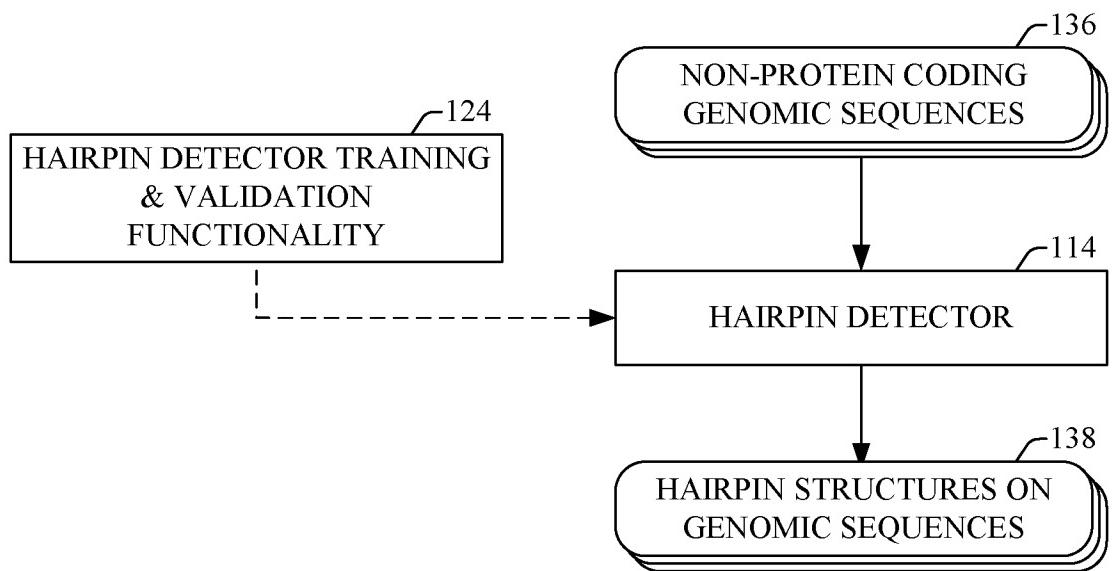


FIG. 12B

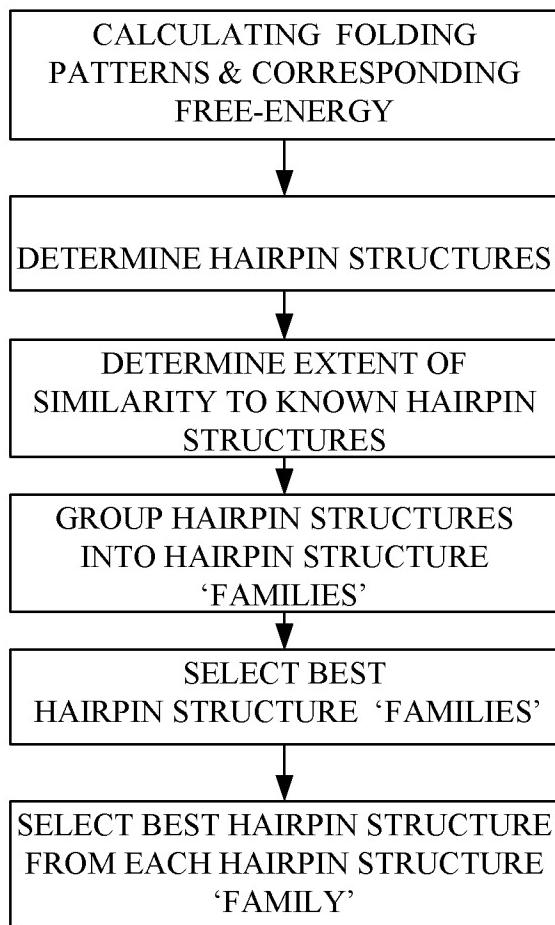


FIG. 13A

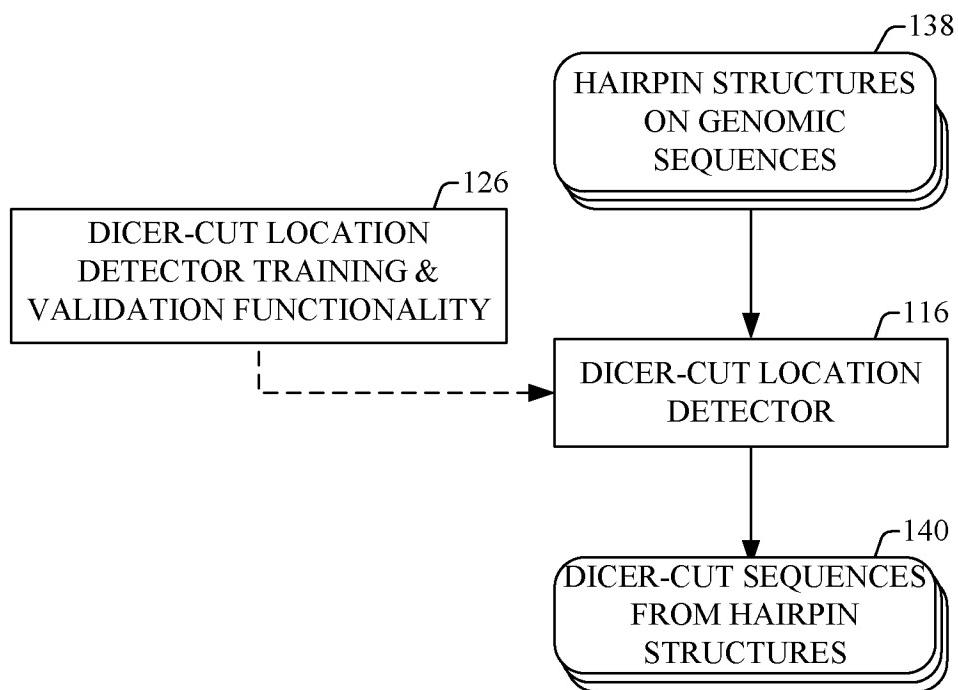


FIG. 13B

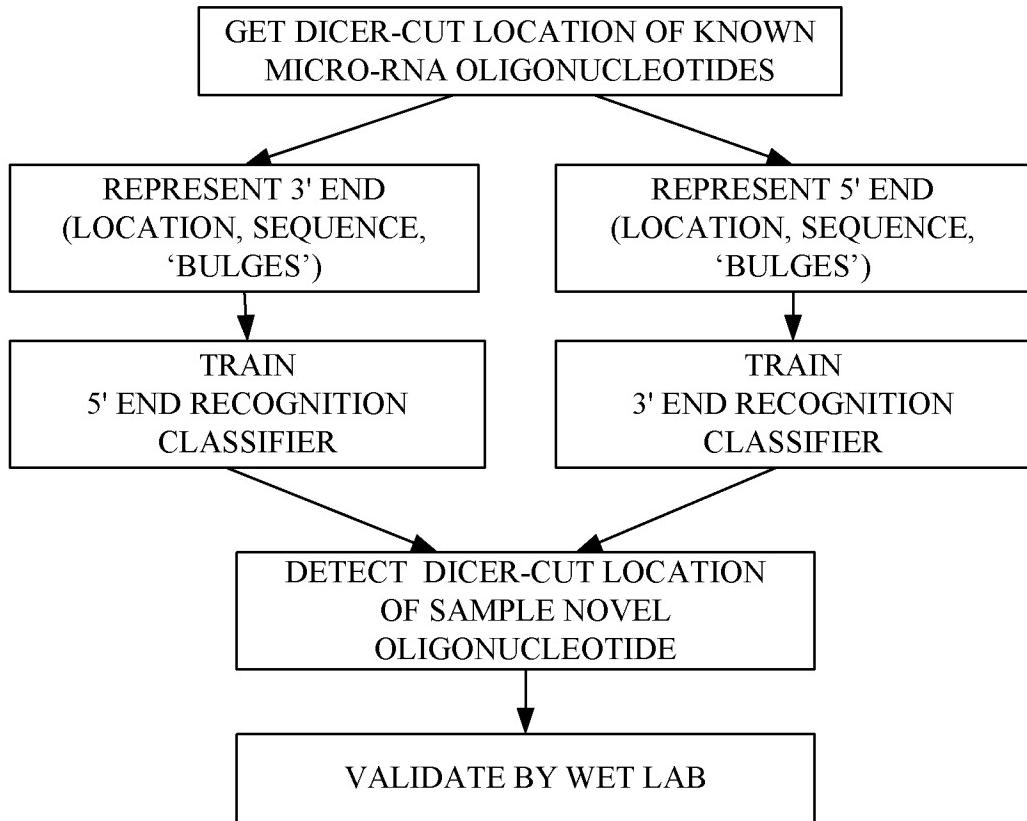


FIG. 13C

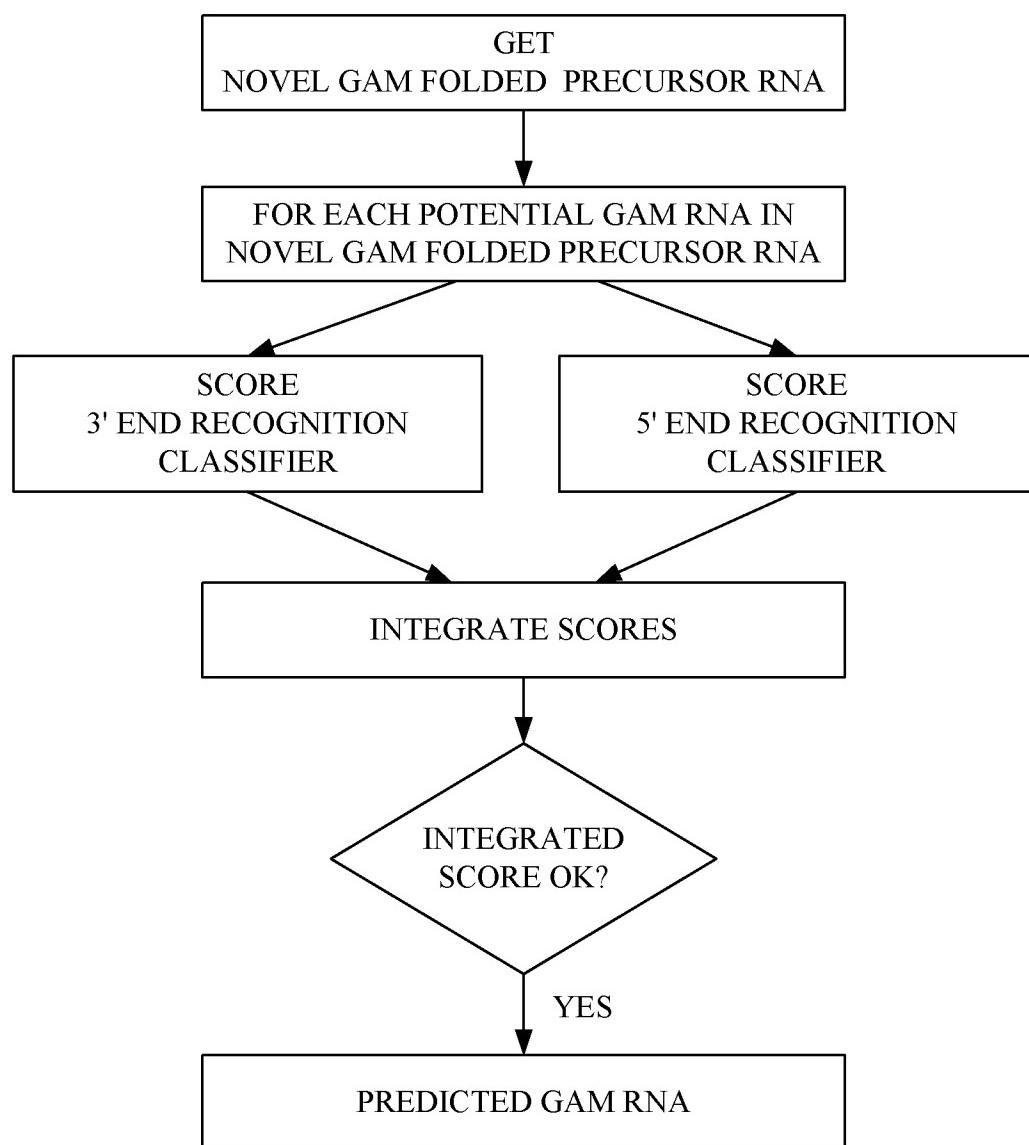


FIG. 14A

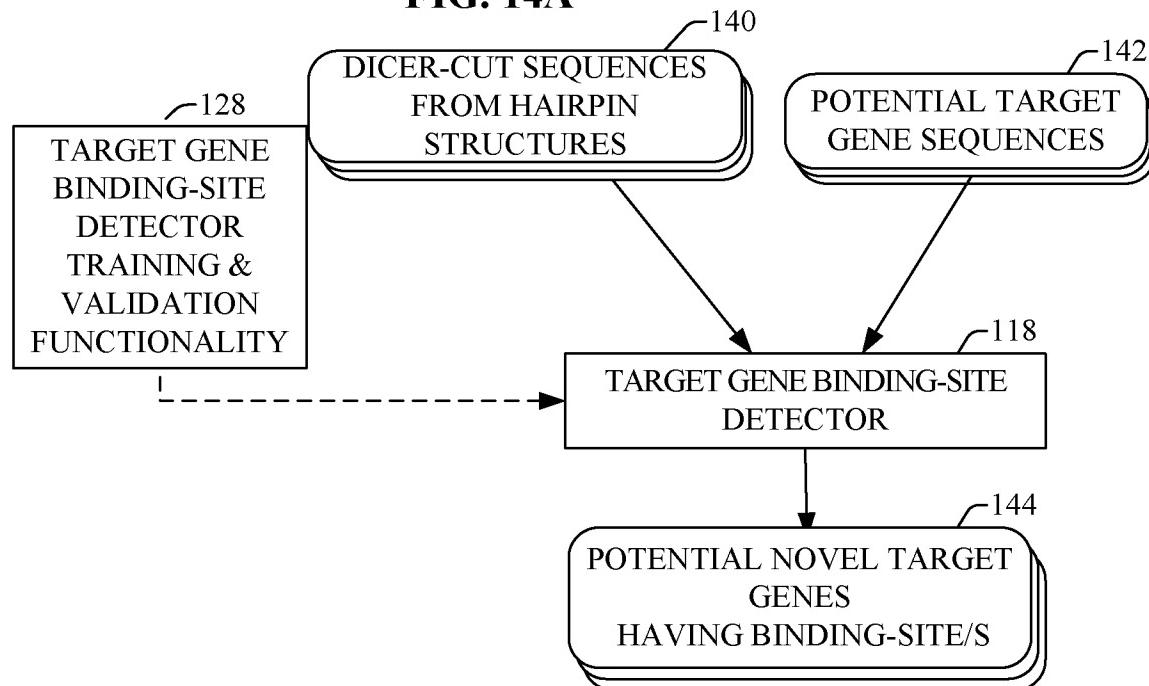


FIG. 14B

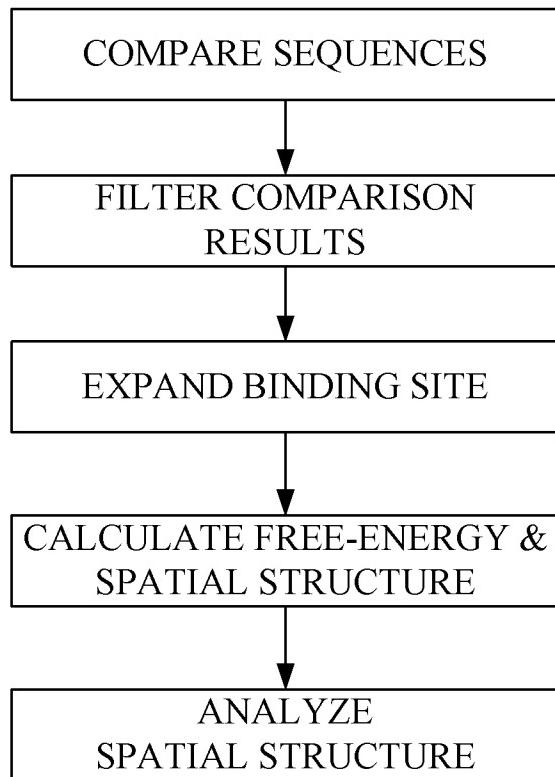


FIG. 15

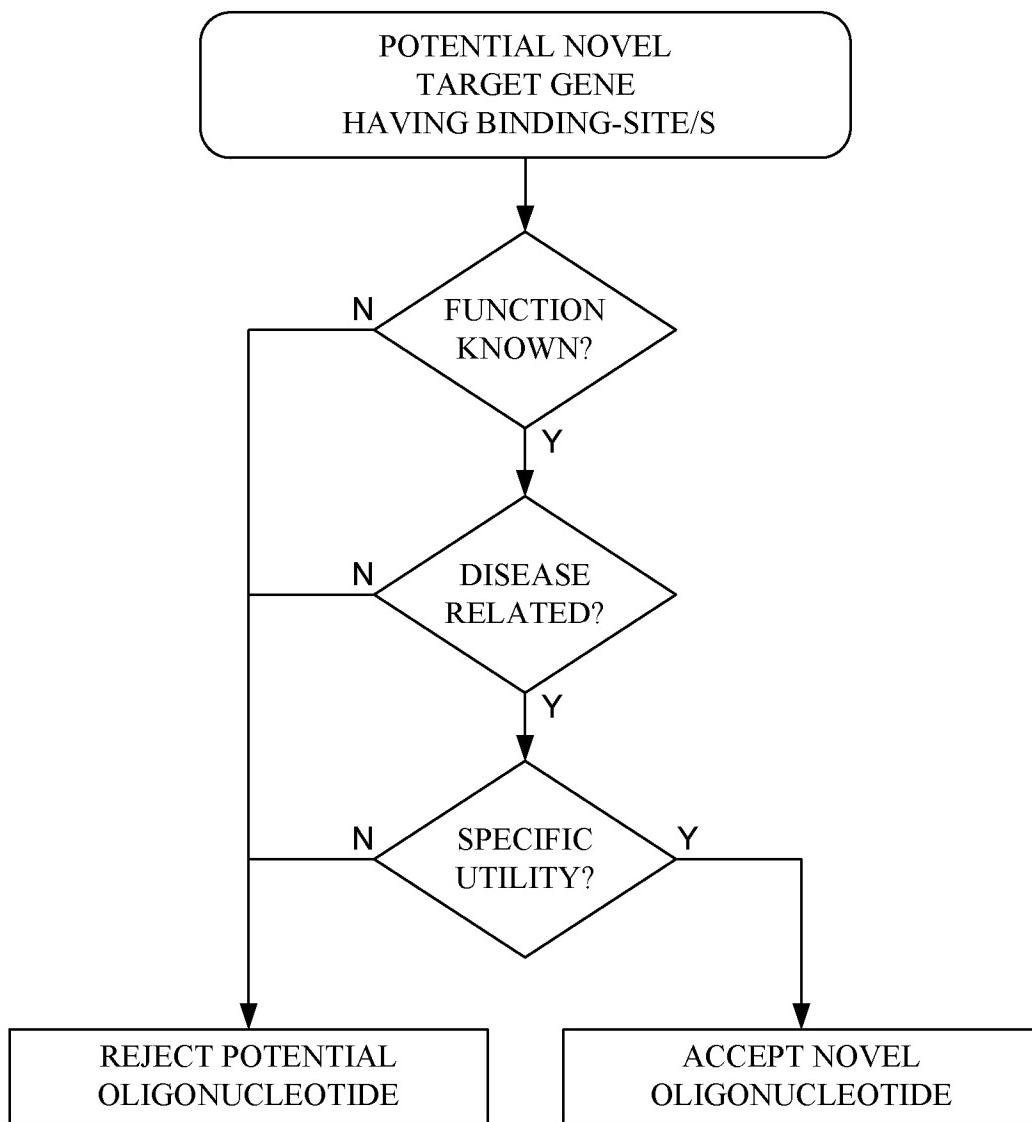


FIG. 16

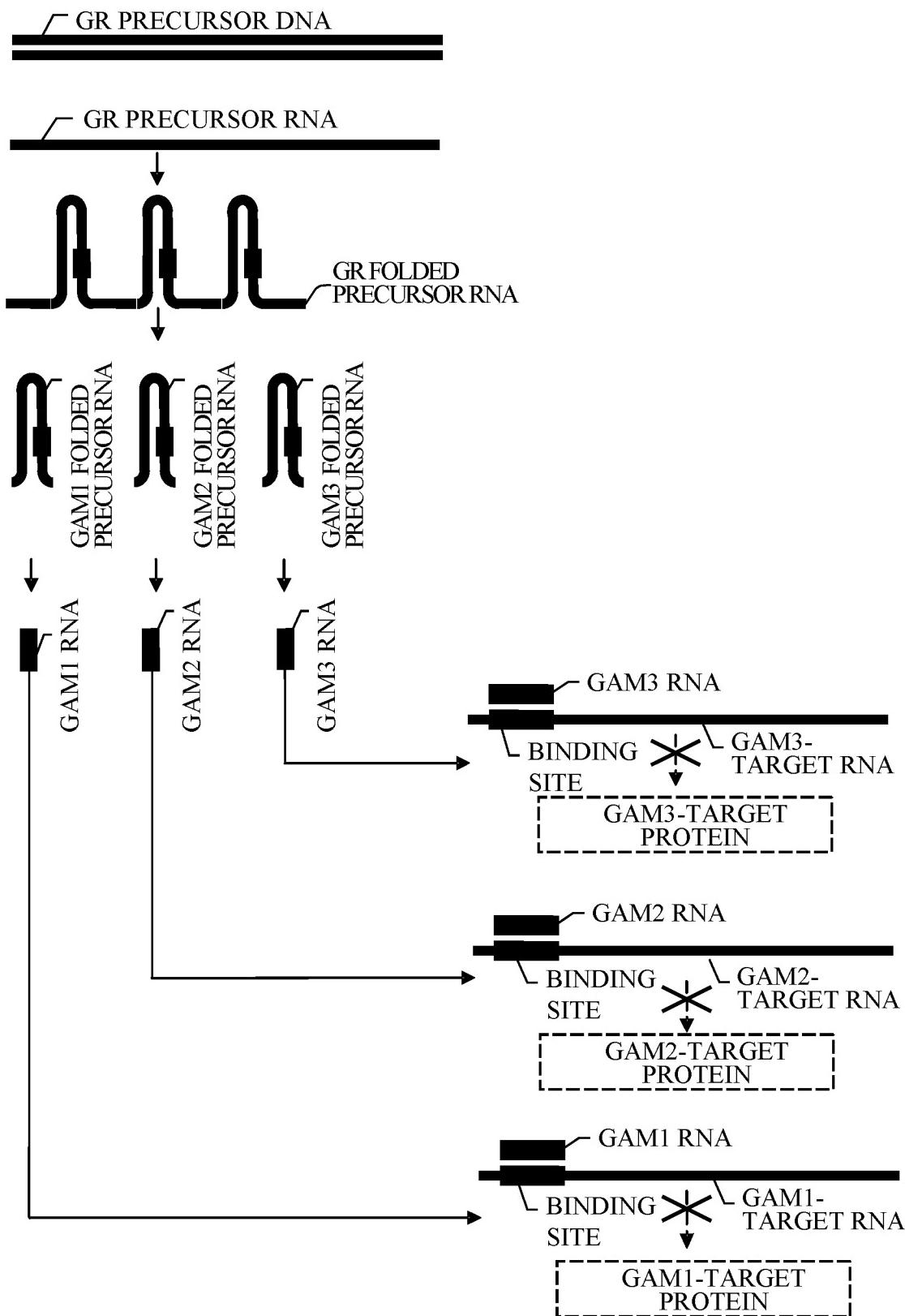


FIG. 17

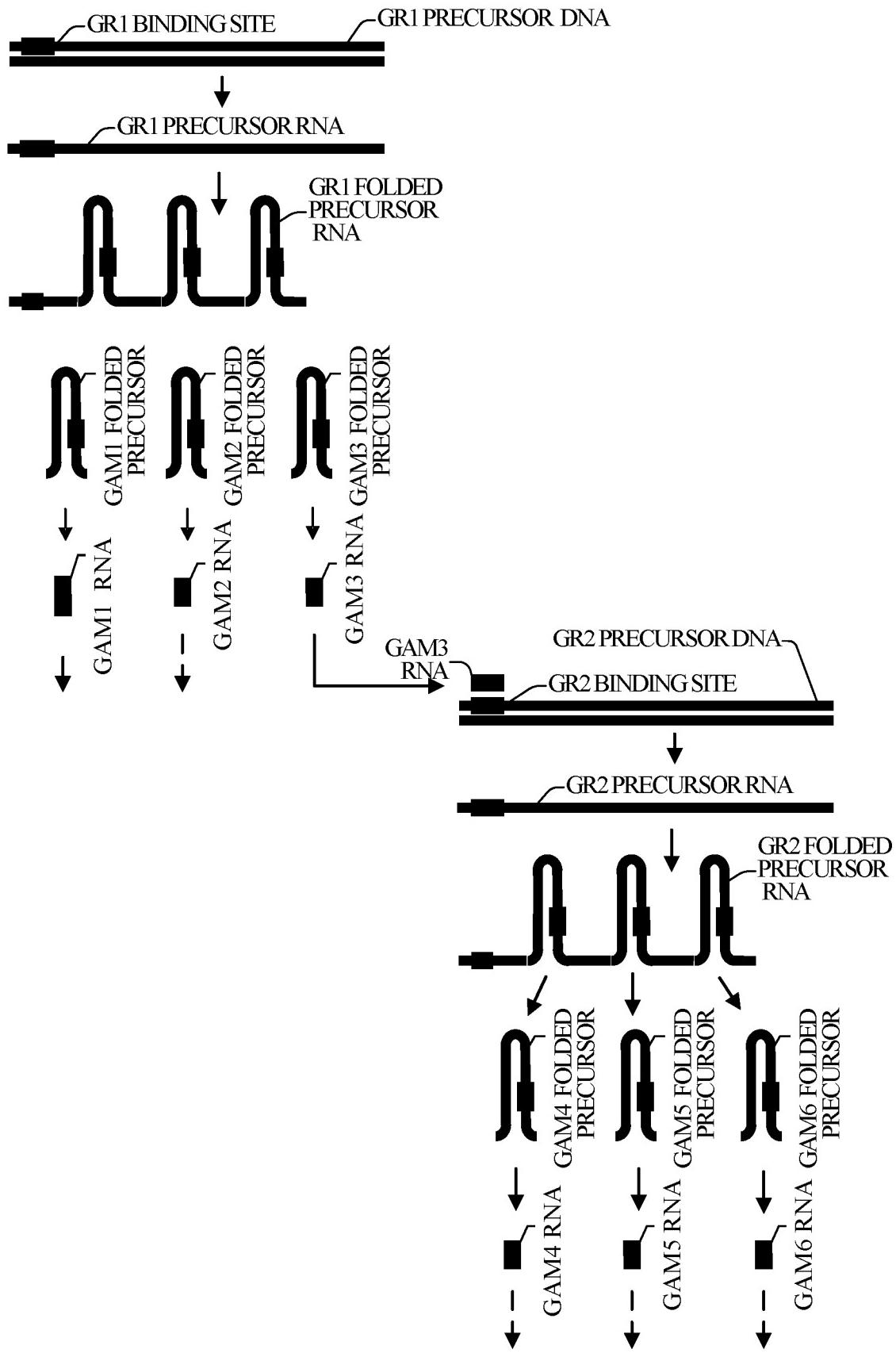


FIG. 18

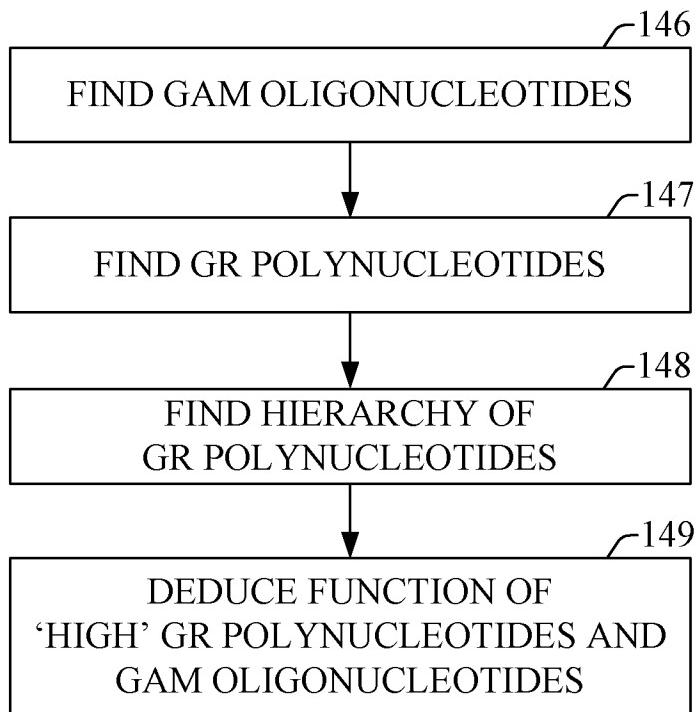


FIG. 19

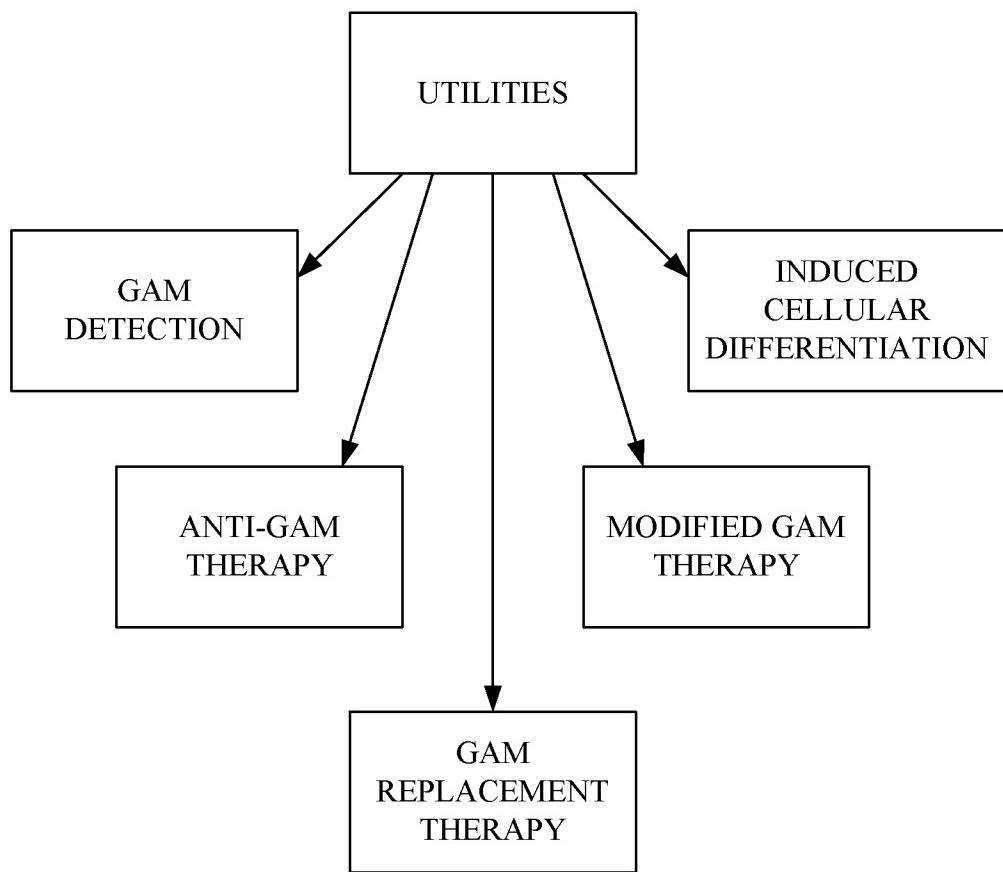


FIG. 20A

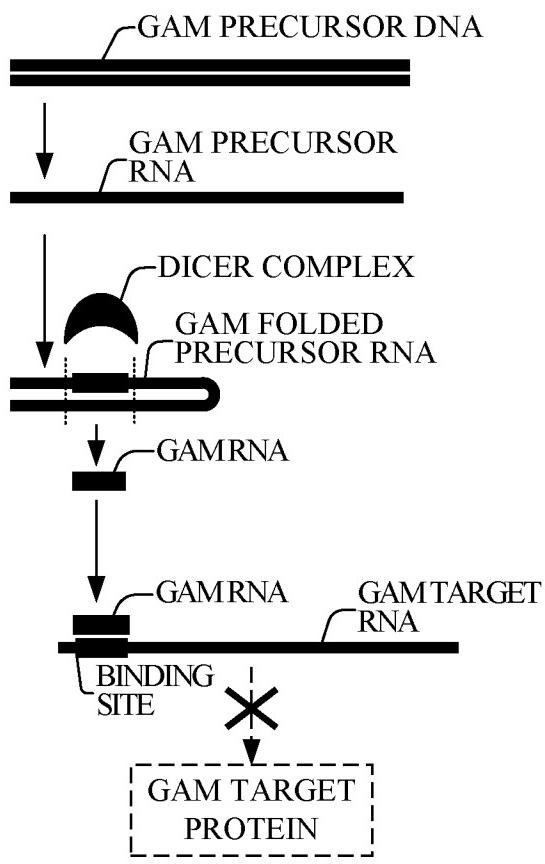


FIG. 20B

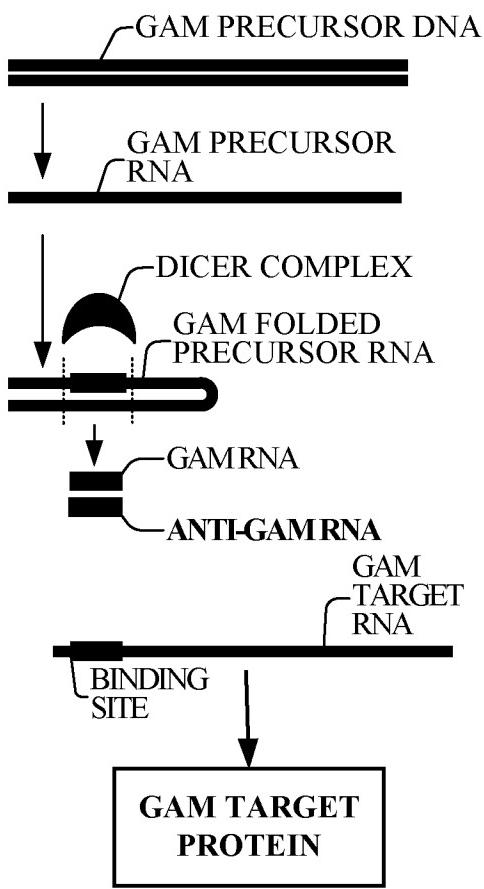


FIG.21A

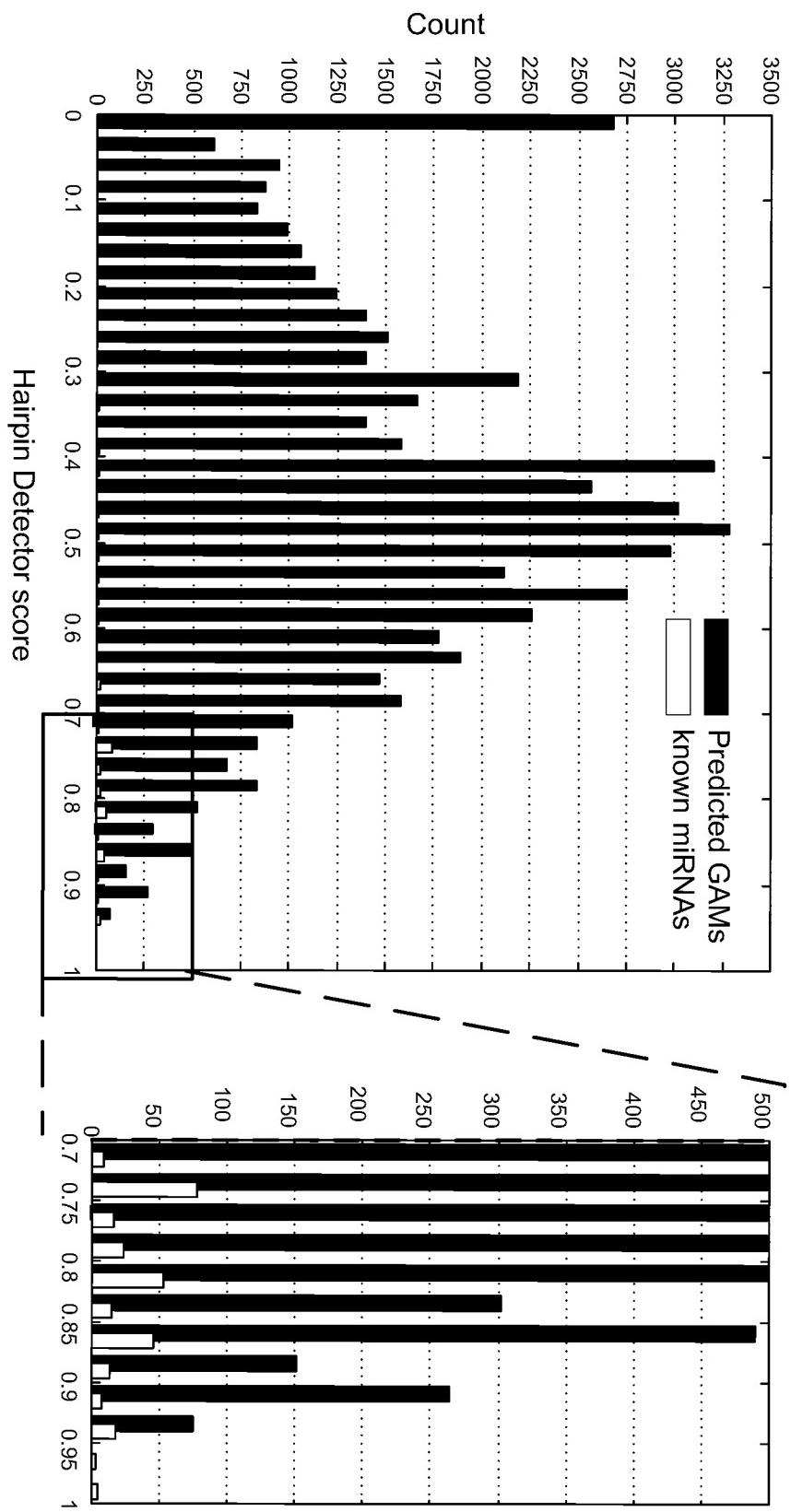


FIG. 21B

GAM Detection Accuracy Group	Number of published hairpins	Precision on hairpin mixture	Lab validation of Human GAMS	Hairpins in RNA databases	Hairpins of the present invention
		Sent	Positive	% success	
A	228	76%	101	37	37% 2821 1503
B	135	41%	56	13	23% 19950 367
C	27	18%	7	1	14% 11765 19
D	20	10%	4	1	25% 7876 2
Overall	410	44%	168	52	31% 42416 1891

FIG. 22A

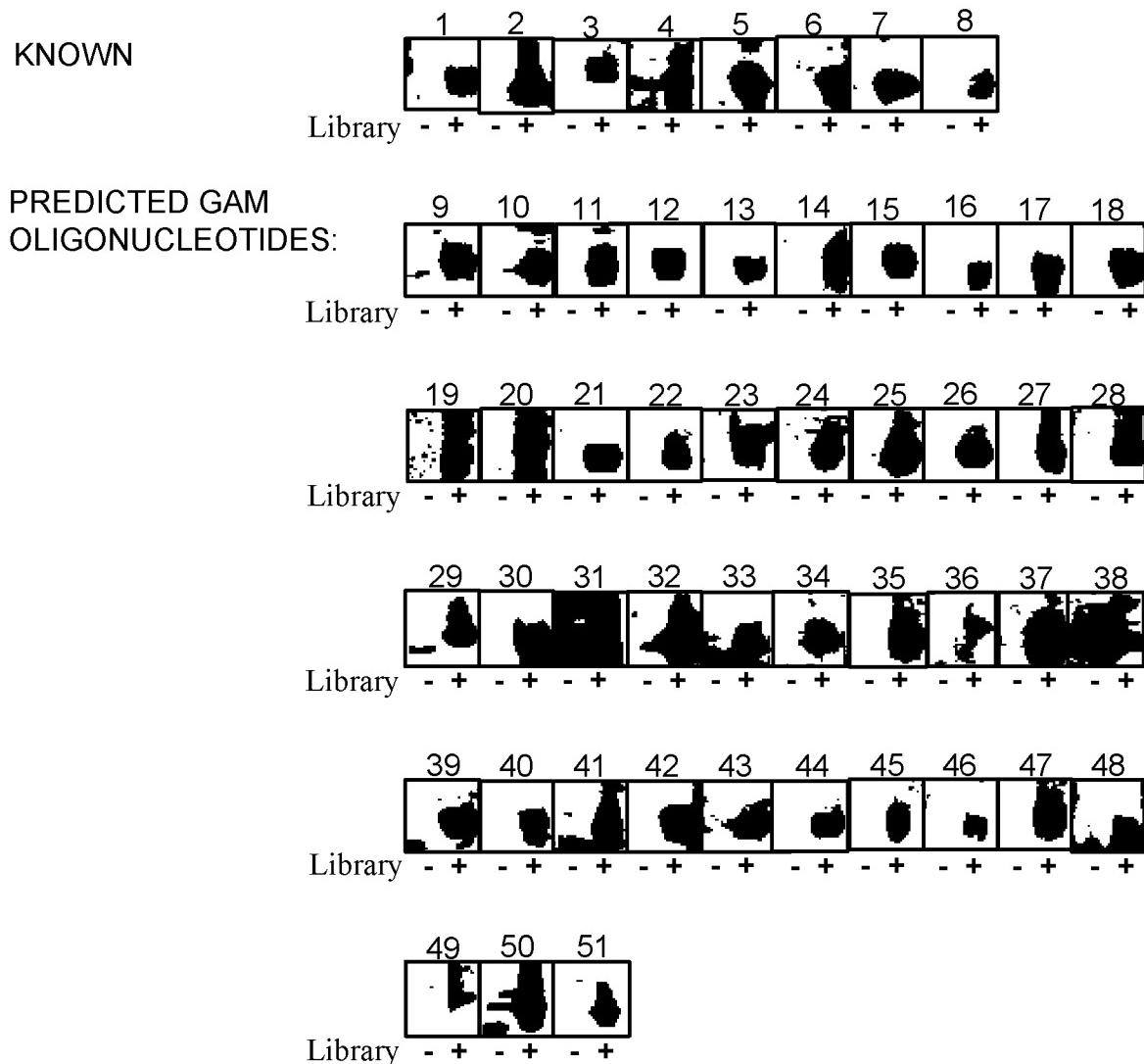


FIG. 22B

NUMBER	NAME	SEQUENCE (5 TO 3)	SEQUENCED
1	hsa-miR-21	TAGCTTATCAGACTGATGTTGA	+
2	hsa-miR-27b	TTCACAGTGGCTAAGTCTGCA	+
3	hsa-miR-186	AAAGAATTCTCCTTTGGGCTT	+
4	hsa-miR-93	AAGTGCTTCTGTGCAGGTAGT	+
5	hsa-miR-26a	TCAAGTAATCCAGGATAGGCTG	+
6	hsa-miR-191	AACCGAATCCAAAAGCAGCTG	+
7	hsa-miR-31	GGCAAGATGCTGGCATAGCTGT	+
8	hsa-miR-92	TATTGCACTTGTCCGGCCTGT	+
9	GAM3418-A	ATCACATTGCCAGGGATTACCA	+
10	GAM4426-A	GAAGTTGAAAGCCTGTTGTTCA	+
11	GAM281-A	CACTGCACTCCAGCCTGGGCAA	
12	GAM7553-A	TAGGTAGTTCTGTGTTGGG	+
13	GAM5385-A	TCACAGTGAACCGGTCTCTTC	+
14	GAM2608-A	TAAGGTGCATCTAGTGCAGTTA	
15	GAM1032-A	CTAGACTGAAGCTCCTTGAGGA	+
16	GAM3431-A	TAATACTGCCGGTAATGATGG	
17	GAM7933-A	TAGCAGCACATAATGGTTGAA	
18	GAM3298-A	AAAGTGCTCATAGTGCAGGTAG	+
19	GAM7080-A	TTTCCACAGCGGCCATTCTTC	+
20	GAM895-A	AGCTGCCAGTTGAAGAACATT	
21	GAM3770-A	AAGTTAACAGACTCCCAGGCCTG	
22	GAM337162-A	ACTGCACTCCAGCCTGGCAAC	+
23	GAM8678-A	GTGTTCCAGGAAGTCGTCTTGA	
24	GAM2033-A	TCAAGCTCATTCTCTAACCTC	
25	GAM7776-A	CATTGCACTCCAGCCTGGGCAA	+
26	GAM8145-A	ACATGATCTCCTCACTCTAGGA	
27	GAM25-A	AATTGCTTAACCCAGGAAGTG	+
28	GAM7352-A	TGTTTAAGTAGCTTATTATCT	
29	GAM337624-A	TCTAACAGAAAAGGAAGTTCAGA	+
30	GAM1479-A	GAAGGCAGTAGGTTATAGTT	+
31	GAM2270-A	ATCACATTGCCAGTGATTACCC	+
32	GAM7591-A	TTGGAGTAATTCACTATAGGTT	+
33	GAM8285-A	AGTAGACAGTGGCAACATAGTC	
34	GAM6773-A	CTAGCCTTTGTCCCTCACCCCC	+
35	GAM336818-A	TGAGGTGGATCCCGAGGCC	+
36	GAM336487-A	TGGCTAGGTAAAGGAAAG	+
37	GAM337620-A	AATCATCATTATTTGAAGTTA	+
38	GAM336809-A	TAAGGCATTTTATGGT	+
39	GAM5346-A	GCTGTTGTTAACGGCACTGGG	
40	GAM8554-A	TTCATGGGAGCAGGTGGTACAG	
41	GAM2701-A	ACTGCACTCCAGTCTGGGTGAC	
42	GAM7957-A	TCACTGCAACCTCTGCCCTCCG	
43	GAM391-A	CAGATCACATCCATCCGTCACC	
44	GAM6633-A	GCACTCAAGCCTGGGTTACAGA	
45	GAM19	AGAGAGTGGCAGGTCTGTTCT	
46	GAM8358-A	GATGAGGCAGCACTGGG	
47	GAM3229-A	TGAGGTGGGAGAATTGCTTGAA	
48	GAM7052-A	CATGTAATCCCAGCTACTCAGG	
49	GAM3027-A (mmu-MIR-29c)	TAGCACCATTGAAATCGGTTA	+
50	GAM21 (mmu -MIR-130b)	CAGTGCAATGATGAAAGGGCAT	+
51	GAM oligonucleotide(mmu-MIR-30e)	TGTAAACATCCTGACTGGAAG	+

FIG. 23A

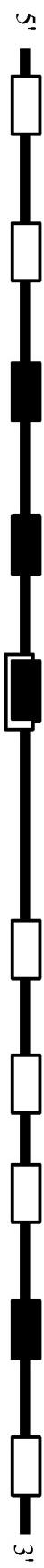


FIG. 23B



FIG. 23C

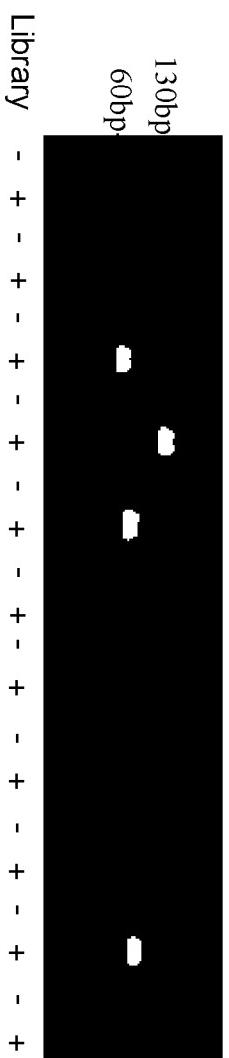


FIG. 24A

EST72223 (705 nt.)

EST72223 sequence:

CCCTTATTAGAGGATTCTGCTCATGCCAGGGTGAGGTAGTAAGTTGATTG
TTGTGGGTAGGGATATTAGGCCAATTAGAAGATAACTATACA
ACTACTTTCCCTGGTGTGGCATATTCACACTTAGCTTAGCAGTGTG
TCCATCAGACAAAGTTGAGATGTTCTGGATAATTGGACTGGAAGAAAAGA
GACATGGAAGGGACAGATGGTGTAGGGTGAGGCAGATGTCATTATAAAGT
GACTTGTCTTCATTAATTGGAGCATATAATTATTTACCTTGGCATGAACTC
ATTGGCTATTCTCACTGTGTAATGATTGCATTATTAGTAATAGAACAGGA
ATGTGTGCAAGGGATGAAAGCATACTTTAAGAATTGGGCCAGGGCGCGT
GGTCATGCCTGTAATCCCAGCATTTTGGAGGCCAGGGCGGGTGGATCAC
CTGAGGTCAGGAGTTGAGACCAACCTGGCCAACACGGCAGAACCCCCGCCTC
TACTCAAATACAAAAATTAGCCAGGCTTGGTACACTGCCCTGTTCCCAGC
TACTCAGGAGGCTGAGGCAGGGAGAATTGCTGAACCCAGGAAGTGGAG
GCTTCAGTGAAGCTGAGAACACGCCACTGCACTCCAGTCCTGGCAAC
AGAGCAAGACTCTGTCAGGAAAAAAAAG

FIG. 24B

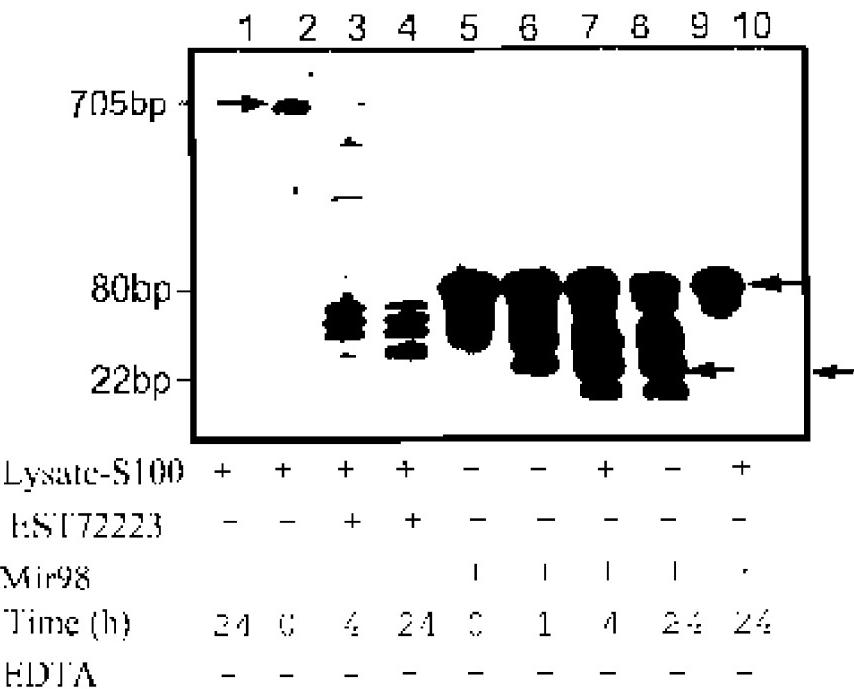


FIG. 24C

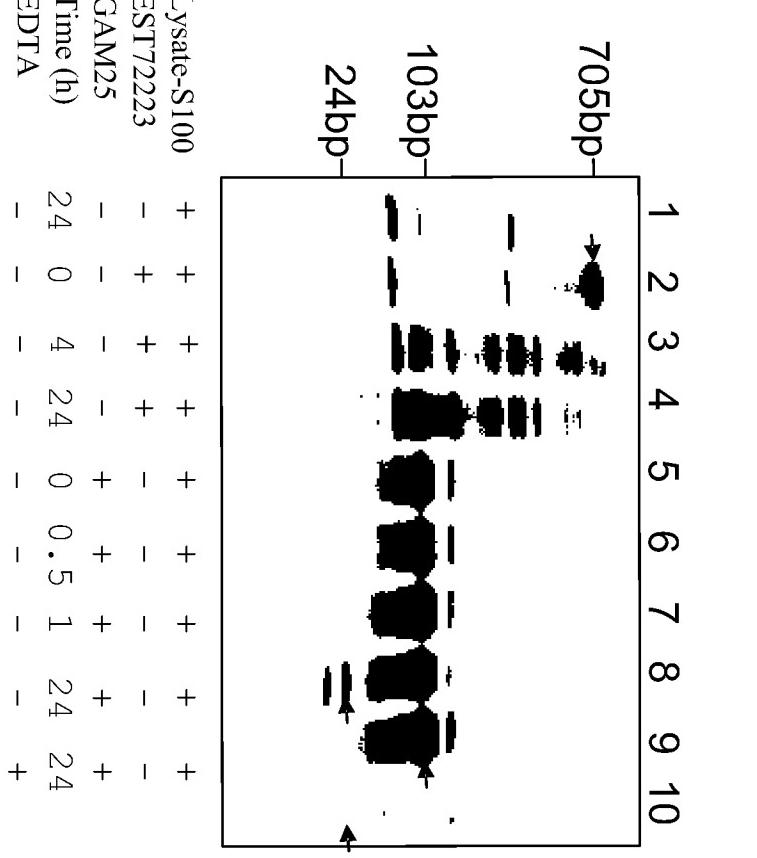


FIG. 24D

